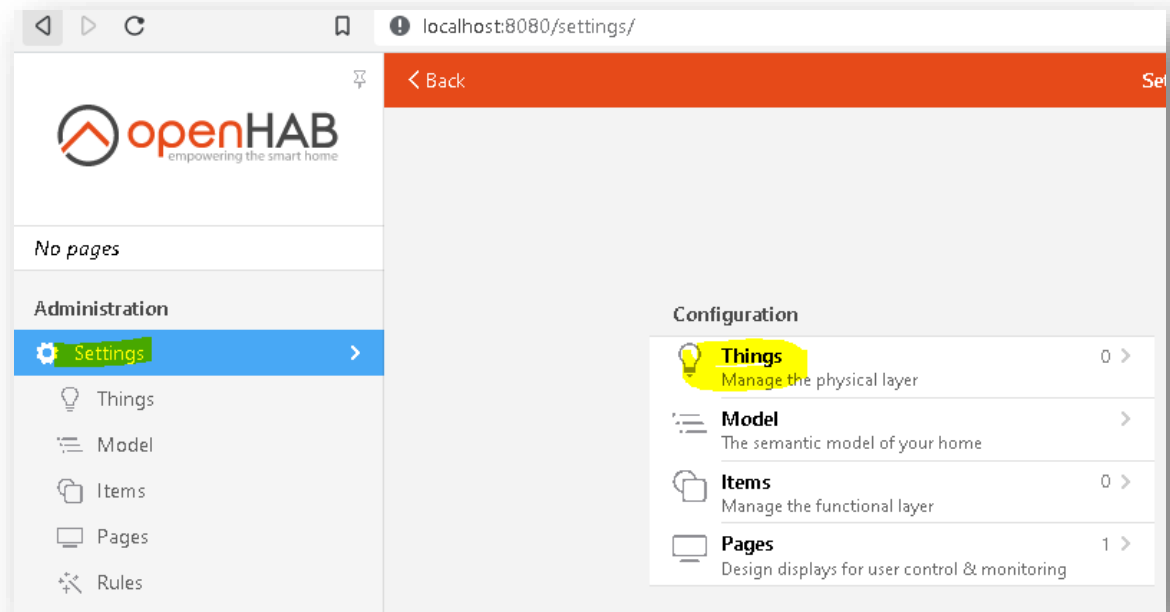


Step 7

Enabling a new Switch PIN to OpenHAB

To add our newly flashed (kamoteq) esp8266 nodeMCU to the OpenHAB follow the below steps

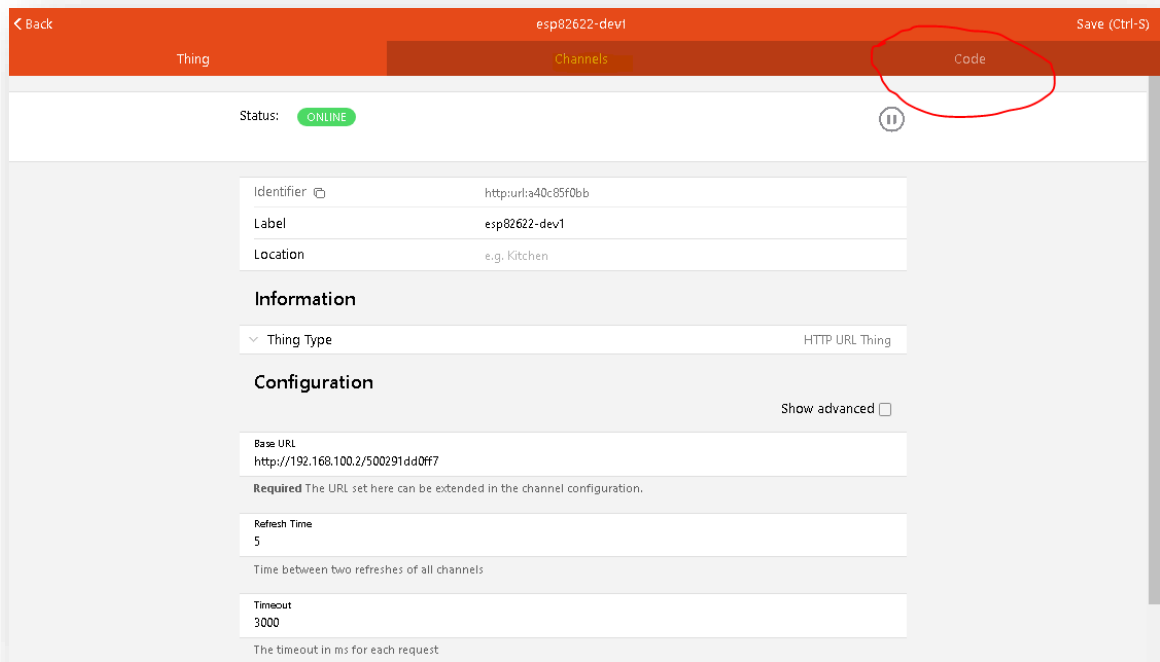
Click **Settings** > and **Things**



Click the newly added ESP device



Click the “Code” tab



This will display the editing window

< Back		esp82622-dev1	
Thing		Channels	
1	UID: http:url:a40c85f0bb		
2	label: esp82622-dev1		
3	thingTypeUID: http:url		
4	configuration:		
5	authMode: BASIC		
6	ignoreSSLErrors: false		
7	baseUrl: http://192.168.100.2/500291dd0ff7		
8	delay: 0		
9	stateMethod: GET		
10	refresh: 5		
11	commandMethod: GET		
12	timeout: 3000		
13	bufferSize: 2048		
14			

Add these lines of codes and change the <changeme> with the pin number you want to use

Available pins for output switches are GPIO 4,5,12,13 & 14

----- code -----

channels:

```
- id: nu_pin<changeme>
  channelTypeUID: http:switch
  label: nu_pin<changeme>
  description: null
  configuration:
    onValue: "1"
    offValue: "0"
    stateExtension: /?req=stat&pin=<changeme>
    commandExtension: /?req=set&pin=<changeme>&mode=%2$s
    stateTransformation: JSONPATH:$.status
```

----- code -----

Or use this (since the setup lab used pin 14/D5 for testing)

----- code -----

channels:

```
- id: nu_pin14
  channelTypeUID: http:switch
  label: nu_pin14
  description: null
  configuration:
    onValue: "1"
    offValue: "0"
    stateExtension: /?req=stat&pin=14
    commandExtension: /?req=set&pin=14&mode=%2$s
    stateTransformation: JSONPATH:$.status
```

----- code -----

[can't copy the code above?] Click this <[link](#)> to get the text format file

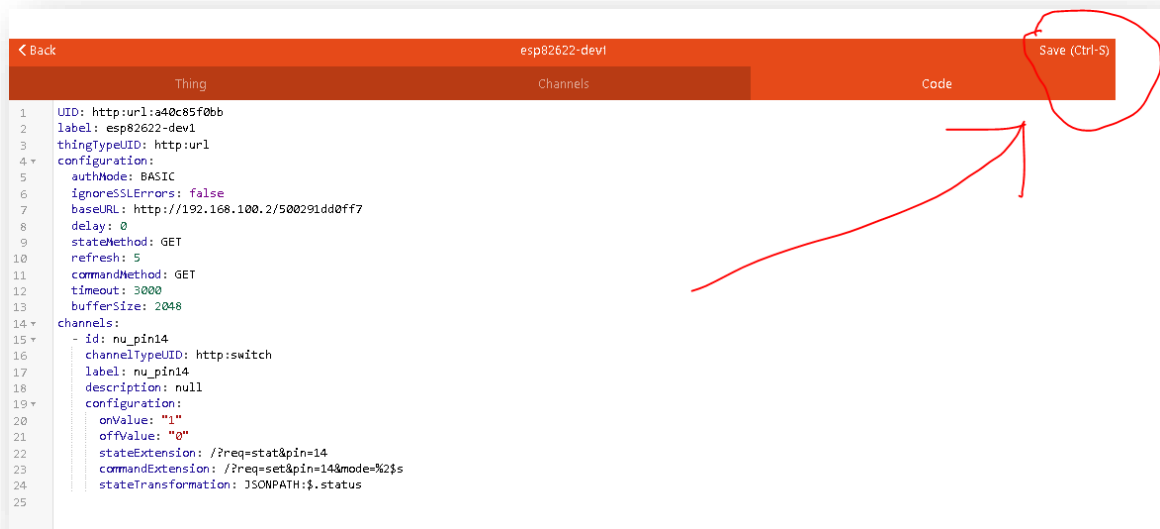
NOTE! channels: must be on the same line as the configuration inside the editor

```
UID: http:url:a40c85f0bb
label: esp82622-dev1
thingTypeUID: http:url
configuration:
  authMode: BASIC
  ignoreSSLErrors: false
  baseURL: http://192.168.100.2/500291dd0ff7
  delay: 0
  stateMethod: GET
  refresh: 5
  commandMethod: GET
  timeout: 3000
  bufferSize: 2048
channels:
  - id: nu_pin14
    channelTypeUID: http:switch
    label: nu_pin14
    description: null
    configuration:
      onValue: "1"
      offValue: "0"
      stateExtension: /?req=stat&pin=14
      commandExtension: /?req=set&pin=14&mode=%2$s
      stateTransformation: JSONPATH:$.status
```

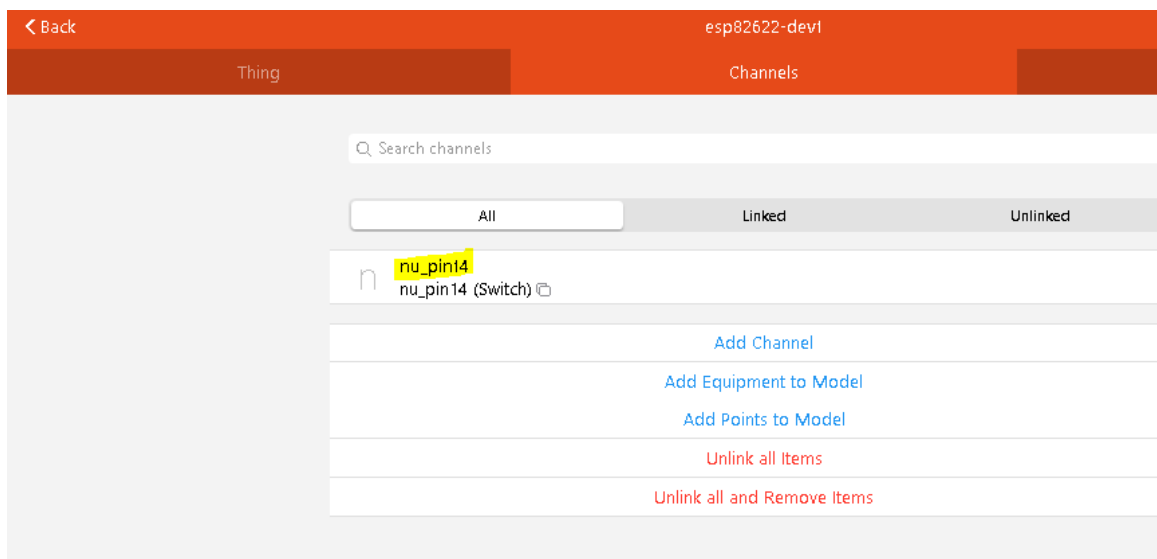
Warning! Alignment or indentation on the source code is very important otherwise this will throw an error

If you want to add more switches, just copy and update the pin number on just make sure you follow the Correct indentations for the coding

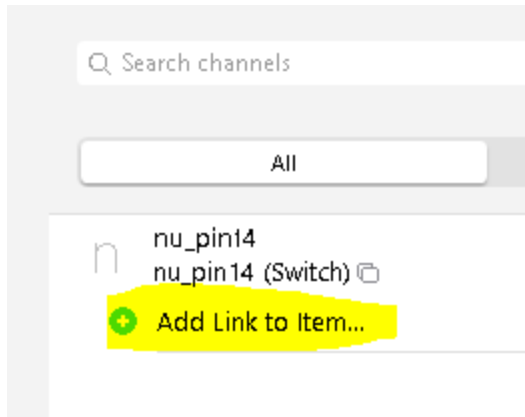
Once you confirmed you're done, then you can go ahead and save the changes by clicking the button "Save (Ctrl+S)" on The far upper right side



Now click the Tab “Channels” and click the newly created channel



Click “Add Link to Item”



Select the "Create a new Item"

A screenshot of a dialog box titled "Link". It has three sections. The first section is labeled "Channel" and contains the text "nu_pin14" and "http:url:a40c85f0bb:nu_pin14 (Switch)". The second section is labeled "Item" and contains two radio buttons. The first radio button is selected and is labeled "Use an existing Item". The second radio button is unselected and is labeled "Create a new Item". The third section is labeled "Item to Link" and contains a red icon. At the bottom right of the dialog box is a blue button labeled "Link".

In the **Category** entry type "switch" and click the **Link** button to finish

Channel

nu_pin14

http://urla40c85f0bb:nu_pin14 (Switch)

Item

☐ Use an existing Item

☒ Create a new Item

Name

esp8262dev1_nu_pin14

✕

Label

nu_pin14

✕

Type

Switch

>

Category

switch

✕

Semantic Class

Point

>

Semantic Property

None

>

Parent Group(s)

>

Profile

Profiles define how Channels and Items work together. Install transformation add-ons to get additional profiles.
[Learn more about profiles.](#)

☒ Default

☐ Follow

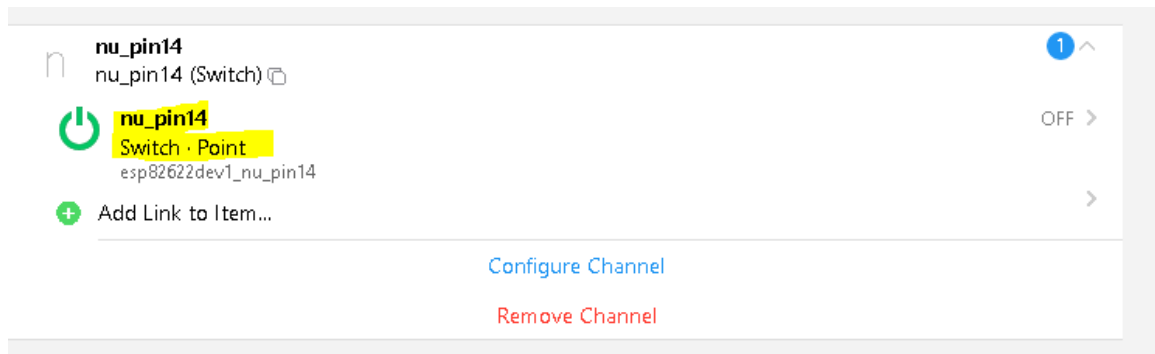
☐ Timestamp on Update

☐ Timestamp on Change

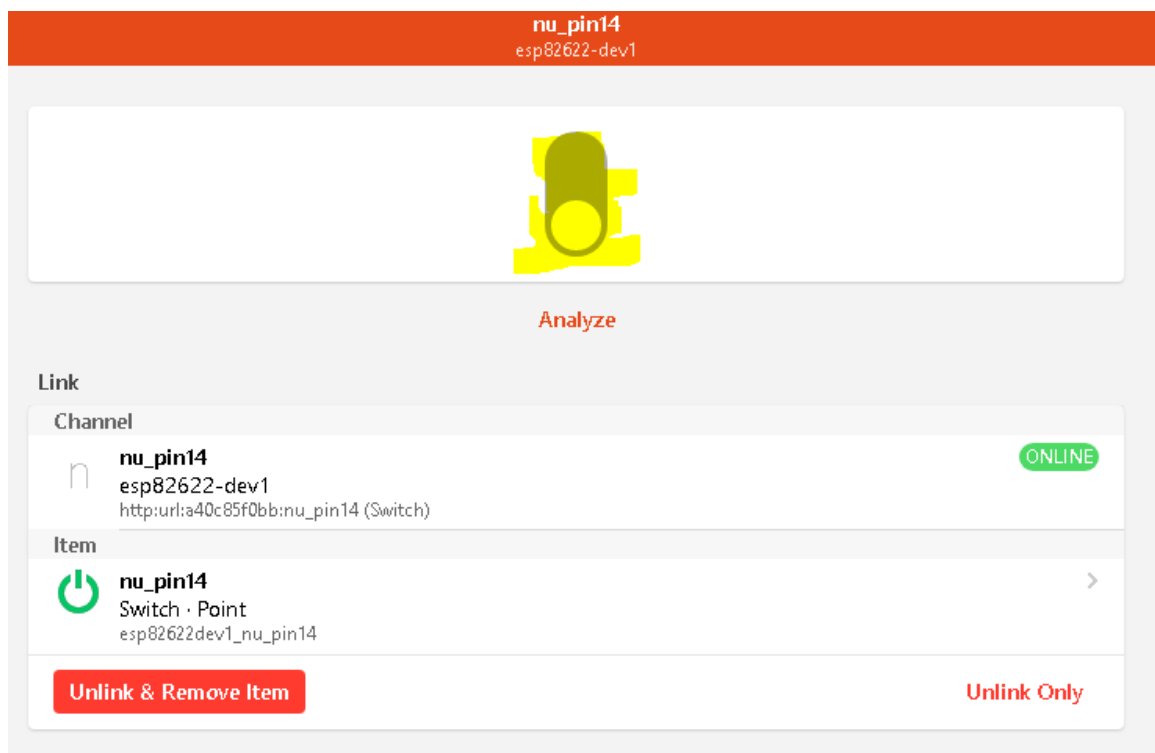
☐ JSONPATH

Link

Click the new **Switch Point**



On this page, you can test the new switch functionality by clicking the button on/off



This completes STEP 7 (Enabling a new Switch PIN to OpenHAB)

Congratulations!

Proceed to STEP 8 (Add DHT Sensor Channels)

End